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LIST OF HEPATICAE TO BE EXPECTED IN NEW ENGLAND

ANNIE LORENZ

The following List of hepaticae not too unreasonably to be expected in New England has been in use by the writer for several seasons. Its rate of shrinkage causes its presentation for the purpose of calling the attention of collectors to the species noted below.

The presence of some of these species may seem somewhat visionary, but, judging by past experiences, it is safe to include a wide and startling range in one's prophecies. During this present month the writer has checked *Lophocolea cuspidata* off the List, having come upon it near Hartford in an agreeable, but not unusual-looking, little sandstone ravine, beside the brook.

Perhaps it may sound even more rash to assign definite stations to many of these species. However, when at Willoughby, Vermont, with Dr. Evans in 1913, the list of additional species was made out beforehand, including suitable stations for each species. Most of them were right there, except those which appeared before reaching the particular log to which they had been assigned! Four came off this List in two days.

Anyone with a week to spend upon Mt. Washington would probably find several of these.

	<i>Present Distribution</i>	<i>Look for in</i>
<i>Riccia glauca</i> L.	Northern and central Eur., Calif., Japan.	Conn.
<i>Riccia Frostii</i> Aust.	Austria, Russia. Kan., S. D., Mo., Mont., Ill., O., Idaho, N. Y.	Conn.
<i>Ricciella Huebeneriana</i> (Lindenb.) Dum.	Eur., Japan. N. J. "Clay bottom of a drained pond."	Conn.
<i>Dumortiera hirsuta</i> (Swartz) Nees.	Ireland, France, Canary Is., Italy. Penn., on dripping calcareous rocks.	Conn.
<i>Metzgeria fruticulosa</i> (Dicks.) Evans.	Germany, France. Wash., Oregon.	Vt.
<i>Pallavicinia hibernica</i> (Hook.) S. F. G.	D. C., boggy meadow. Eur. Kalkpflanze.	Vt.
<i>Pallavicinia Blyttii</i> (Morck) Lindb.	Northern and Alpine Eur., Urgesteinspflanze. Wash., Mt. Rainier, B. C., on wet rocks.	Mt. Washington
<i>Riccardia incurvata</i> Lindb.	Northern Eur., wet sandy ground.	Maine coast.
<i>Gymnomitrium obtusum</i> (Lindb.) Pears	Alps, Gr. Br., Norway. Greenland, Alaska, Vancouver, Mont.	Mt. Washington or Katahdin.
<i>Marsupella badensis</i> Schiffner.	Baden, Bohmen, France, on wet rocks.	N. H.
<i>Nardia Breidlerii</i> (Limpr.) Lindb.	Alps, Gr. Br. Mt. Rainier.	Mt. Washington or Katahdin.

	<i>Present Distribution</i>	<i>Look for in</i>
<i>Nardia paroica</i> Schiffn.	Gr. Br., wet rocks.	N. H.
<i>Jungermannia atrovirens</i> Dum.	Northern Eur., Spitzbergen, Japan. Wash., Kalkpflanze.	Vt.
<i>Jungermannia biformis</i> Aust.	Delaware Water Gap, N. J., on steep wet rocks.	Conn.
<i>Jungermannia fossombron-ioides</i> Aust.	Englewood, N. J.; Closter, N. J., on rocks in a brook.	Conn.
<i>Jungermannia riparia</i> Tayl.	Europe, Kalkpflanze. B. C., Mt. Rainier.	Vt.
<i>Anastrophyllum Reichardtii</i> (Gottsche) Steph.	High Alps, Italy, Austria, Norway, Urgestein, wet rocks, northern exposure.	Mt. Washington
<i>Lophozia Binsteadii</i> (Kaal.) Evans	Norway. Yukon, Greenland.	N. H.
<i>Lophozia quadriloba</i> (Lindb.) Evans	Northern and alpine Europe. Arctic America, Alaska.	Maine.
<i>Lophozia Wenzelii</i> (Nees.) Steph.	Northern and alpine Europe, on wet rocks. Arctic Am.	N. H.
<i>Lophozia Muelleri</i> (Nees.) Dum.	Europe, common in limestone countries. Wis.	Conn., on the Stockbridge limestone.
<i>Lophozia Schultzii</i> (Nees.) Schiffn.	Northern Europe, not alpine. Yukon, Alaska, Minn., in limy swamps.	Vt.
<i>Sphenolobus saxicolus</i> (Schrader) Steph.	Northern Eur. to Siberia, Alps, rare Canada, Alaska, Greenland.	Maine or Mt. Washington.
<i>Sphenolobus politus</i> (Nees.) Steph.	Eur. Greenland, Alaska, Quebec, B. C., wet gravelly places.	Maine.
<i>Sphenolobus scitulus</i> (Tayl.) Steph.	Dolomites, Kalkpflanze. B. C., on earth.	Vt.
<i>Harpanthus Flotovianus</i> Nees.	Northern Eur., Siberia, in bogs. Greenland, Labrador, B. C., Alaska.	N. H.
<i>Cephalozia affinis</i> Lindb.	Finland, Sweden, old logs. Sisson, Calif.	N. H.
<i>Cephalozia ambigua</i> Massal.	High Alps, Scandinavia, on earth. Ellesmere Land.	N. H.
<i>Cephalozia Loitlesbergeri</i> Schiffn.	Hochmooren, Germany, Austria, Switzerland, England.	N. H.
<i>Cephalozia Macrostachya</i> Kaal.	Scandinavia, England, in bogs. Long Island (Howe).	Conn.
<i>Cephalozia leucantha</i> Spruce	Alps, Austria, Scandinavia, on logs, common. Alaska.	Maine.
<i>Hygrobiella laxifolia</i> (Hook) Spruce	Northern Eur., wet rocks. Greenland, Labrador, N. S., Wash., Mt. Rainier.	Maine.

	<i>Present Distribution</i>	<i>Look for in</i>
<i>Cephaloziella Baumgartneri</i> Schiffn.	Mediterranean coast, England, on walls and rocks. Kalkpfl.	Vt.
<i>Cephaloziella integerrima</i> (Lindb.) Warnst.	Central and northern Eur., clayey and sandy ground, ditches, etc.	Conn.
<i>Cephaloziella striatula</i> (Jens.) Douin.	Hochmooren, central and northern Eur. Greenland.	N. H.
<i>Odontoschisma Macounii</i> (Aust.) Underw.	Alps, northern Eur., on earth. Yukon, Greenland, Minn.	Mt. Washington
<i>Odontoschisma Sphagni</i> (Dicks.) Dum.	Hochmooren, Mts. of central and northern Eur. Greenland, Nova Scotia, Miquelon.	Maine.
<i>Pleuroclada albescens</i> (Hook.) Spruce.	Alpine Eur. Greenland, Mt. Rainier, Montana, on earth.	Mt. Washington
<i>Lepidozia trichoclados</i> K. M.	Northern and alpine Eur., on wet rocks, <i>not bogs</i> , Baden, Alps, Hartz, Gr. Br., Norway.	Mt. Washington
<i>Telaranea nematodes longifolia</i> Howe	Florida, Georgia, N. C., N. J., L. I. boggy woods.	Conn., e. shore. New London County.
<i>Herberta adunca</i> (Dicks) S. F. G.	Eur. Alaska, N. J., Catskills, wet rocks.	Mass. or Vt.
<i>Scapania aspera</i> Bernet.	Switzerland, Alps, common. England, Norway, Kalkpflanze.	Vt.
<i>Scapania Bartlingii</i> (Nees.) Hampe.	Switzerland, Kalkpflanze. B. C., N. B.	Maine, Franklin County.
<i>Scapania uliginosa</i> (Swartz) Dum.	Eur., Scand., northern sp. Wet rocks or bogs, Vancouver.	N. H.
<i>Radula Lindbergiana</i> Gottsche.	Scand., Germany, Gr. Br., on rocks, uncommon.	Vt.
<i>Lejunea patens</i> Lindb.	Ireland, west coast of Gr. Br. Newf., banks and trees.	Maine.
<i>Microlejeunea ulicina</i> (Tayl.) Evans.	Ireland, west coast of Gr. Br. N. S. on trees.	Maine.
<i>Frullania Bolanderi</i> Aust.	B. C. to Calif., common on Pacific coast. Wis.	Maine.

It may be of interest to compare this List, a few years later, with the actual stations. Additions or omissions will be gratefully received.

HARTFORD, CONN., December, 1914.